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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/623,709	09/07/2000	Annika Bjore	3525-96	6411		
7590 05/25/2004			EXAMINER			
Nixon & Vanderhye 1100 North Glebe Road 8th Floor			BERCH, MARK L			
Arlington, VA			ART UNIT	PAPER NUMBER		
			1624			
			DATE MAILED: 05/25/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No	Applicant(s)				
Office Action Summary								
		09/623,70	9	BJORE ET AL.				
		Examiner		Art Unit				
		Mark L. Be		1624				
Period fo	The MAILING DATE of this communication app or Reply	ears on the	cover sneet with the c	orrespondence address				
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no eve y within the statu will apply and will , cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic D (35 U.S.C. § 133).	cation.			
Status								
1)⊠	Responsive to communication(s) filed on 12 Ap	nril 2004						
,	This action is FINAL . 2b) This action is non-final.							
<u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-14 and 20-27 is/are pending in the a 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-14 and 20-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from cor						
Applicat	ion Papers							
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b)[drawing(s) bo ion is require	e held in abeyance. Seed if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.12	` '			
Priority (under 35 U.S.C. § 119							
12) <u>□</u> a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list of	s have beer s have beer rity docume u (PCT Rule	n received. n received in Application nts have been received 17.2(a)).	on No ed in this National Stage	,			
2) Notice 3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-14, 20-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Similarly, the reference to alkyl or alkylene groups being unsaturated, e.g. at claim 2, line 3, at page 6, line 2, etc. is impossible. Alkyl is a group of the formula $-C_nH_{2n+1}$, as noted previously. As such it cannot be unsaturated. The traverse is unpersuasive. Applicants give as an example the 1-butenyl group. That group is not the formula $-C_nH_{2n+1}$, and thus is not an alkyl group. It is an alkenyl group. The same is true for the divalent groups, which would be not alkylene but alkenylene.

Claims 1-14, 20-27 are rejected under 35 U.S.C. 112, paragraphs 1 and 2, as the claimed invention is not described, or is not described in such full, clear, and exact terms as to enable any person skilled in the art to make and use the same, and/or failing to particularly point out and distinctly claim the subject matter which applicant regards as his invention. Specifically:

The molecule, when in the form of a quaternary ammonium derivative has a plus charge but no minus charge --- there is no anion. A molecule without electrical neutrality is impossible to prepare and hence lacks enablement in terms of how to make, as such a thing cannot be made (paragraph 1). Note MPEP 2172.01: "A claim which omits matter disclosed to be essential to the invention as described in the specification or in other statements of record may be rejected under 35 U.S.C. 112, first paragraph, as not enabling. In re Mayhew, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). See also MPEP § 2164.08(c). Such essential matter may include missing elements ...". Here, the missing counterion is the missing element. On the other hand, if it was not the intention of applicants to claim such a non-neutral molecule, then the claim fails to set forth what applicants intend as their invention (paragraph 2). That is, it is not accurate because it is missing something. As stated in In re Zletz, 13 USPQ2d 1320, 1322, "An essential purpose of patent examination is to fashion claims that are precise, clear, correct and unambiguous." The traverse is unpersuasive. Applicants argue that "the nature of the anion in this aspect of the claimed invention is not "essential"." Regardless of whether the "nature" of the anion is or is not essential (the specification is silent on this point), the presence of the anion is essential, because without it being present, the molecule is not electrically balanced and hence cannot exist. Similarly Applicants state, "one of ordinary skill would readily understand how to prepare compounds of the invention in quaternary ammonium form" - - - but since the compounds cannot exist without a counterion, it is not seen how such can be prepared. One cannot prepare that which does not exist in the first place.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark L. Berch whose telephone number is 571-272-0663. The examiner can normally be reached on M-F 7:15 - 3:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund Shah can be reached on (571)272-0674. If you are unable to reach Dr. Shah within a 24 hour period, please contact James O. Wilson, Acting-SPE of 1624 at 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark L. Berch
Primary Examiner
Art Unit 1624

5/20/04